Nu·Art DENTAL LLC

A CLINICIAN'S GUIDE
MODERN REMOVABLE WORKFLOWS AND MATERIALS

RESTORING WITH GREATER EFFICIENCY AND PREDICTABILITY

USING TWENTY-FIRST CENTURY REMOVABLES OPTIONS

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REMOVABLES IN THE TWENTY-FIRST CENTURY

Over the last decade we have witnessed a true digital revolution in our industry. Most of these advancements in materials, however, were heavily focused on fixed restorative techniques with many suppliers competing for the very lucrative zirconia market.

Lately we have been seeing a definite shift in material development aimed at the once forgotten removables market.

Digital dentures have become the next frontier and although off to a rocky start, the latest materials and design softwares have again revitalized this solution.

The advantages of restoring a removable prosthesis with a digital workflow are immeasurable. Since the introduction of advanced smart polymers to support the design software, there is again an excitement around restoring the edentulous arch.

This protocol manual will discuss clinical workflow advantages and efficiencies, material advancements and improvments, in addition to digital archiving for future restorations.

We are very excited to partner with you on this digital journey!

-Frank Haeuser and Dan Balmer, General Managers of Nu-Art Dental Lab

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HIGH END PRINTED DENTURES NOW POSSIBLE ON A CONSISTENT BASIS

SIMPLIFIED CLINICAL WORKFLOW

By utilizing the existing denture as a prototype starting point, the clinician can eliminate the unpredictable results a wax bite-rim can produce. This very predictable workflow allows for the fabrication and delivery of a new denture in as little as two clinical appointments. If an existing denture is not available, a traditional wax bite-rim workflow can be used to set the initial VDO.

DIGITAL SMILE ARCHIVING

Every Nu-Art Printed Denture is digitally archived for future retrieval. Nu-Art's smile archiving services allow for effortless, future, new denture processing. A lost denture can be replaced with an exact copy in as little as 72 hours without further clinical appointments required. An emergency "copy" denture can be ordered with the final denture at a greatly reduced cost.

EXTREME STRENGTH

Nu-Art Printed Dentures are fabricated using Lucitone Digital Print material printed on validated Carbon and Asiga printers. This material is classified as a smart polymer, doubling it's strength at body temperature. Lucitone Print material offers fracture resistance of 3000J/m2 compared to hand processed Lucitone high impact acrylic at 1380J/m2 and the ISO minimum impact standard at 900J/m2.
All Nu-Art Printed Dentures are delivered with a one-time, 12 month"Full Replacement/No Repair" limited warranty.

PREDICTABLE IMMEDIATE TO FINAL DENTURE WORKFLOW

Immediate denture design is digitally guided by the patient's pre-op tooth position, bite, and clinicians' diagnostic requests. After healing, this archived data is used as a prototype starting point for the final denture. This process digitally indexes all the data from pre-op to final for a predictable workflow.

DENTURE ARCHIVING FOR LIMITED MOBILITY PATIENTS

Archiving of patients' existing dentures allows for a replacement copy of a lost denture without requiring further clinical appointments.

REMOTE DIAGNOSTIC COMMUNICATION

Nu-Art Dentures processed from existing prototype data are diagnostically designed and can be super-imposed over patient smile pictures. This allows for diagnostic remote review and fine-tuning by the clinician and the Nu-Art digital design team.

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NEW DENTURE - CLINICAL DATA GATHERING

Modern-day technology is helping the progressive clinician to restore dentures with greater efficiency and much improved profitability. Utilizing a PVS wash relined existing denture combined with smile pics and diagnostic notes as a prototype starting point, greatly simplifies the restorative process. This gathered data can be captured using a chairside intra-oral scanner. If a scanner is not available, the denture with wash PVS impression can be sent to Nu-Art for digital indexing. This prototype workflow replaces the traditional bite-rim as starting point for the restorative process. A try-in is still recommended. In some cases the final denture processed from the prototyping can be delivered without the need for a try in appointment.

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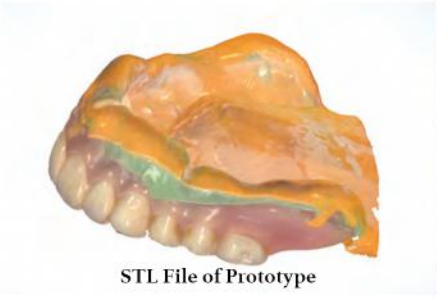
NEW DENTURE - CLINICAL DATA GATHERING

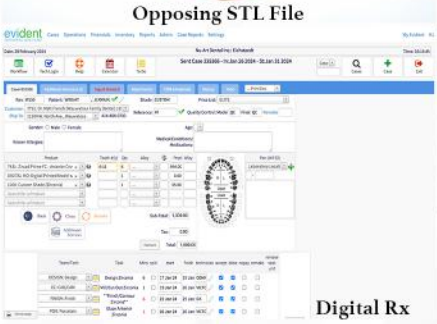


STL File of Prototype

Opposing Arch Scan

Opposing STL File

Bite Scan



Digital Rx

SCANNING INSTRUCTIONS ON NEXT PAGE

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TRANSFERRING THE DATA TO NU-ART: SCANNING INSTRUCTIONS

1. iCall iTero at 1-800-577-8767 and request to add Nu-Art Dental Lab to your "Favorite Lab" list.
2. On the Cadent Lab List, search for Nu-Art Dental Lab. Select our laboratory as a "Favorite Lab".
3. Send Your Scan: Submit your scans to Align Technology for margin marking. We will receive the scan and begin processing your case.

Our lab iTero code is: 354

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1. Visit https://portal.3shapecommunicate.com/login and enter your Username and Password.
2. Click on "Connections", then "Add Connection".
3. Enter: staff@nuartdental.com
4. We will approve your connection and begin to process your case.</

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1. Sign in to your account at www.cerec-connect.com and navigate to the "My Account" menu.
2. Click on "My Favorite Labs" and search for Nu-Art Dental Lab. Our zip code is 53005. Check the box next to our name and click Add.
3. You are now ready to submit your scans to us through the Cerec Connect Portal.

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1. Log in to your CS Connect account
2. Select the case you would like to send and locate case details
3. Under 'choose a laboratory', enter our email address: staff@nuartdental.com

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1. Log in to your Medit Link account.
2. Select "All Organizations from the sidebar.
3. Search for "Nu-Art Dental Lab" and click 'Request Contract'

On April 1, 2019, 3M announced that it sold assets related to its 3M™ True Definition Intraoral Scanner platform to Midmark Corporation.

1. Call Midmark at 844-856-1231 and request to add Nu-Art Dental Lab to your "Favorite Labs" list.
2. Sign in to your account at https://casemanager.3m.com and select Nu-Art Dental Lab on the 3M lab list.

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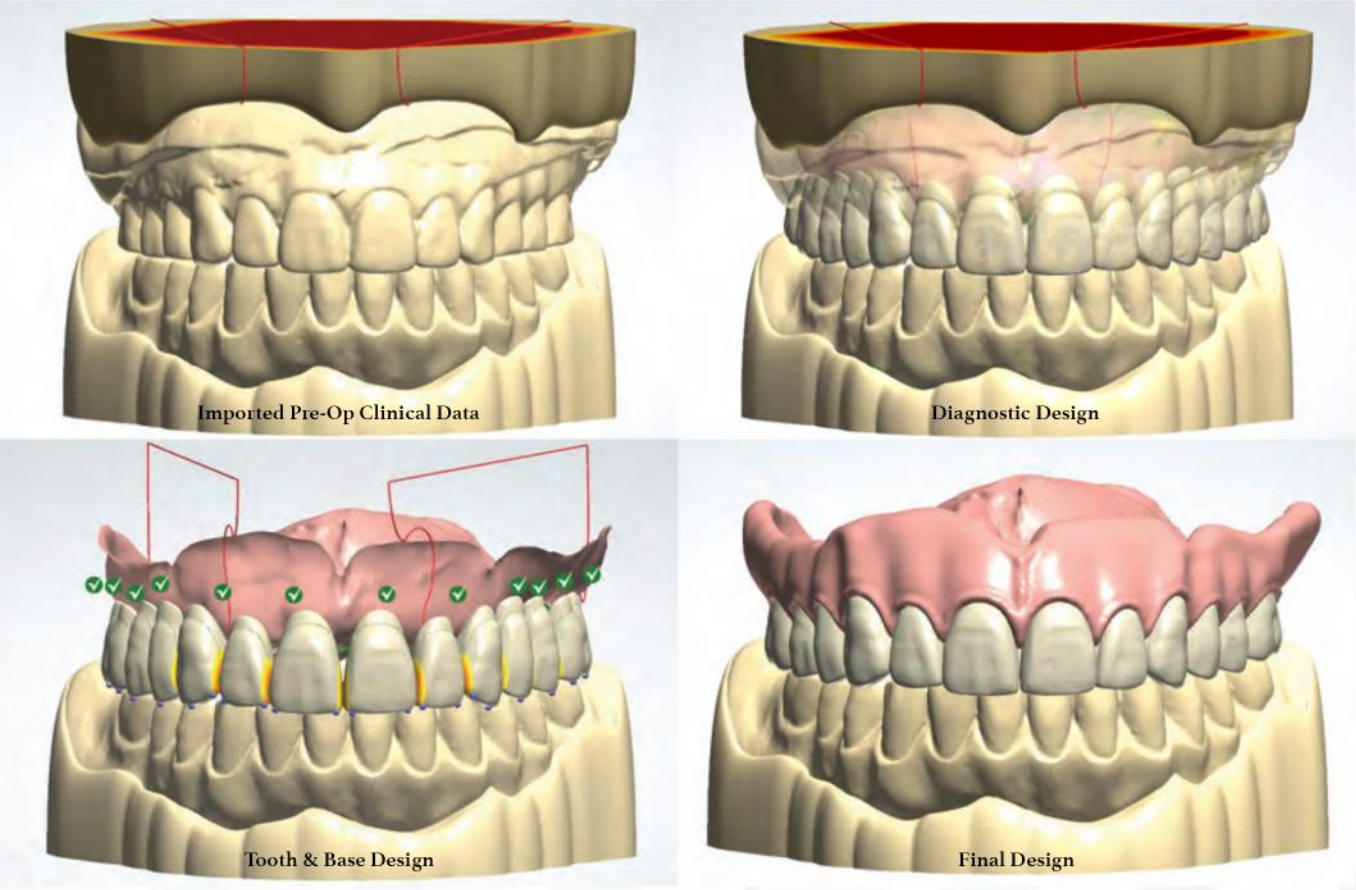
DIGITAL DESIGN & COMMUNICATION

The Nu-Art digital design team will import the clinical data into denture design software and process a diagnostic case design. The designer follows the diagnostic changes requested by the clinician to accommodate prototype tooth position modifications. If significant diagnostic changes are required, a remote review can be scheduled to evaluate the data.



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PROCESSING OF DIGITAL DESIGN

After approval of the digital design, a printed prototype design will be fabricated for try-in. This printed try-in will be an exact copy of the final denture and can be used as a definitive try-in for fit, vestibule length / thickness and tooth position. Digital design and processing eliminates many of the analog processing errors, which historically has caused final delivery issues. In most cases, where only small changes were required from the original denture, the case is processed for final delivery at the third or fourth appointment.

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CLINICAL DELIVERY & TRY-IN

Nu-Art Dentures can be processed with a traditional "wax bite-rim" or the "existing denture" workflow, as discussed earlier in this manual. When a traditional bite-rim workflow is utilized, a digitally designed and printed try-in is suggested for the second clinical appointment. This printed try-in is an exact replica of the proposed final. If any additional changes (incisal length or bite adjustments, etc) are required, they can be made directly to this try-in denture. This device can also be used to verify the fit, thickness, vestibule length, etc. Any of these adjustments can be recorded with a reline PVS wash impression. After physical changes are made to the try-in, it is returned to the lab via analog delivery or digital scan. The laboratory will use this digitized data to adjust the design file. The final will be a direct copy of the approved dimensions and tooth positions, as directed by the try-in. Lucitone 3D PRINT is available in 5 tissue colors.
Nu-Art will supply you with a free tissue guide upon request.

If a case is processed utilizing the existing denture as a prototype starting point, a try-in appointment is only required if large changes are to be made to the original denture. In most cases, when an existing denture prototype is used, the second clinical appointment is the final delivery.

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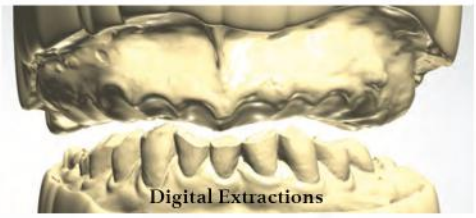
IMMEDIATE TO FINAL WORKFLOW

This enhanced digital workflow is truly emphasized when the restorative process is started from the pre-extracted immediate denture phase. This procedure can be initiated with a PVS or digital impression of the dentate patient. The bite can be set at CO or CR before scanning with an IO scanner or adjusted in analog, before the case is digitized by the lab. The digital wax-up will be processed by taking the pre-op tooth positions and diagnostic requests into consideration. Once the patient has healed and is ready for a final denture, the archived date can be submitted to Nu-Art by IO scanning or physically returning it for lab digitizing. The printed try-in prototype allows for the final denture to be delivered at the next appointment. This workflow accounts for the patient's original tooth position and bite, from immediate to final denture delivery. This greatly increases the predictability and enhances communication, when restoring these patients.

IMMEDIATE DENTURE PROCESS

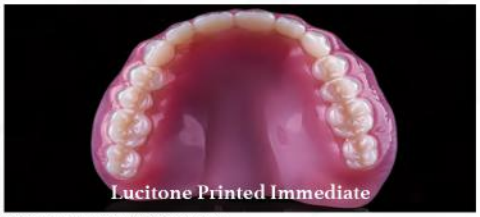

IO Scan of Dentate Patient


Digital Import


Digital Extractions

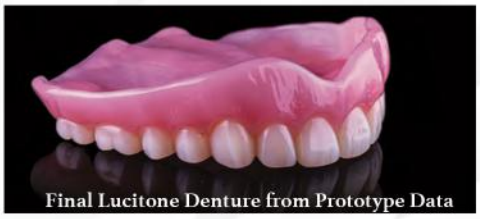

Pre-Op to Diagnostic Relationship


Approved Immediate


Lucitone Printed Immediate

FINAL DENTURE FROM ARCHIVED IMMEDIATE DATA


Printed Try-In from Archived Date - PVS Wash


Final Lucitone Denture from Prototype Data

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NU-ART DIGITAL DENTURE

NU-ART LUCITONE 3D PREMIUM DENTURE

The Nu-Art Denture digital design and material combination has greatly simplified the removable restorative process.
Once a case is completed, an archived digital smile record is created for potential future use. When required, this indexed smile can be retrieved and a try-in printed without the need for another record gathering appointment. At the first clinical appointmentl the intaglio is refreshed with a simple PVS wash reline.
This allows for the fabrication of an updated version of the original denture. The new final denture can be produced in as little as 3 days.

In case a well-fitting digitally archived denture is lost or destroyed, a simple phone call and 3 days is all that is required to reproduce an exact copy of the original.

The process of digitally indexing an existing denture greatly simplifies any future new denture processes. This archiving service is very valuable to patients in frail care who traditionally are not able to attend multiple restorative appointments required to restore a new denture.

DIGITAL TURNAROUND
3-4 clinical appointment deliveries
12-month "no repair" replacement warranty*
72-hour lost denture replacement
72-hour expedited new denture turnaround
60-month exact copy redo at reduced cost
5-day immediate denture turnaround

LUCITONE 3D PRINT
3x Stronger than minimum required ISO impact standard
IPN 3D Digital teeth fused (not luted) into the Lucitone base
Lucitone 3D Print smart polymer, doubles its strength at body temperature
High esthetics comparable to trusted Lucitone 199 material
Lucitone 3D print - 3000J/m2, Lucitone 199 high impact - 1378J/m2, ISO - 900J/m2

*Nu-Art "no repair" warranty valid only if original denture is returned. Warranty only valid for 1 replacement in first 12 months from fabrication.
Warranty only covers material failure under normal function i.e. debonding of teeth and or cracked base.
Noticeable abuse outside of intra-oral function will void the warranty.

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